

International Space Station (ISS) Potable Water Dispenser (PWD) Beverage Adapter (BA) Redesign

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The Potable Water Dispenser used on the International Space Station (ISS) interfaces with food and drink packages using the Beverage Adapter and Needle. Unexpected leakage has been seen in this interface. The Beverage Adapter used on-orbit was returned to the ground for Test, Teardown, and Evaluation. The results of that investigation prompted a redesign of the Beverage Adapter and Needle. The Beverage Adapter materials were changed to be more corrosion resistant, and the Needle was redesigned to preclude leakage. The redesigns have been tested and proven.